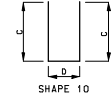


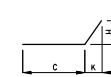
BILL OF REINFORCING STEEL

BILL OF REINFORCING STEEL

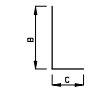
ROUTE	STATE	DISTRICT	SHEET NO.
	MO		
JOB NO.			
CONTRACT ID			
PROJECT NO.			
COUNTY			DATE



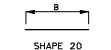
SHAPE 10



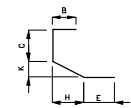
SHAPE 15



SHAPE 19



SHAPE 20



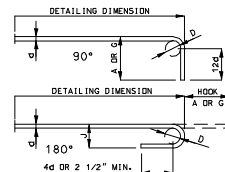
SHAPE 27

SPLICE LENGTH		MAX BAR LENGTH	
BAR SIZE	NON-EPOXY	BAR SIZE	NON-EPOXY
#4	21 IN.	#4	60 FT.
#5	26 IN.	#5	60 FT.
#6	31 IN.	#6	60 FT.
#7	39 IN.	#7	60 FT.
#8	51 IN.	#8	60 FT.
#9	65 IN.	#9	60 FT.
#10	82 IN.	#10	60 FT.
#11	101 IN.	#11	60 FT.

NOTES:
THE BAR LIST IS BASED ON THE MISSOURI STANDARD PLANS.
THIS BAR LIST IS FOR QUANTITY ESTIMATION PURPOSE ONLY AND SHALL BE VERIFIED OR MODIFIED BY THE CONTRACTOR.

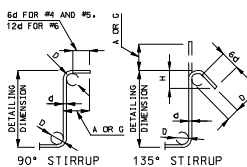
NOTE:
ALL STANDARD HOOKS AND BENDS OTHER THAN 180 DEGREE ARE TO BE BENT WITH SAME PROCEDURE AS FOR 90 DEGREE STANDARD HOOKS.
HOOKS AND BENDS SHALL BE IN ACCORDANCE WITH THE PROCEDURES AS SHOWN ON THIS SHEET.
FB = BARS MAY BE BENT IN FIELD TO FIT.
V = EPOXY COATED REINFORCEMENT.
V = STIRRUP.
V = BAR DIMENSIONS VARY IN EQUAL INCREMENTS BETWEEN DIMENSIONS SHOWN ON THIS LINE AND THE FOLLOWING LINE. A BLANK IN THE SECOND LINE REPRESENTS THE SAME BAR DIMENSION AS THAT IN THE FIRST LINE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ADD A SPLICE LENGTH TO A BAR LENGTH WHICH EXCEEDS ITS MAXIMUM ALLOWABLE LENGTH.
NO. EA. = NUMBER OF BARS OF EACH LENGTH.
NOMINAL LENGTHS ARE BASED ON OUT TO OUT DIMENSIONS SHOWN IN BENDING DIAGRAMS AND ARE LISTED FOR FABRICATORS USE. (NEAREST INCH)
ACTUAL LENGTHS ARE MEASURED ALONG CENTERLINE BAR TO THE NEAREST INCH.
PAYMENTS ARE BASED ON ACTUAL LENGTHS.
REINFORCING STEEL (GRADE 60) F_y = 60,000 PSI.

END HOOK DIMENSIONS			
BAR SIZE	D (IN.)	GRADE 60	
		180° HOOKS	90° HOOKS
#4	3"	A OR C	J A OR C
#5	3 3/4"	7"	5" 10"
#6	4 1/2"	8"	6" 12"
#7	5 1/4"	10"	7" 14"
#8	6"	11"	8" 16"
#9	9 1/2"	15"	11 3/4" 19"
#10	10 3/4"	17"	13 1/4" 22"
#11	12"	19"	14 3/4" 24"



STIRRUP HOOK DIMENSIONS			
BAR SIZE	D (IN.)	90° HOOK	135° HOOK
#4	2"	4 1/2" A OR G	4 1/2" 3"
#5	2 1/2"	6"	5 1/2" 3 3/4"
#6	4 1/2"	12"	8" 4 1/2"

NOTE: UNLESS OTHERWISE NOTED DIAMETER "D" IS THE SAME FOR ALL BENDS AND HOOKS ON A BAR.



NOTE: THIS DRAWING IS NOT TO SCALE. FOLLOW DIMENSIONS.

SHEET NO. OF